

## C L A I M S

1. An ophthalmic composition, which is enriched with oxygen.
- 5 2. The ophthalmic composition according to claim 1, which comprises a sufficient amount of the dissolved oxygen and/or an oxygen donor to treat or prevent an ophthalmological disease resulting from oxygen deficiency.
3. The ophthalmic composition according to claim 2, wherein the  
10 amount of oxygen present as dissolved oxygen and/or that contained in oxygen donor is 10 mg or above per liter of the composition.
4. The ophthalmic composition according to claim 1 or 2, wherein the amount of oxygen present as dissolved oxygen and/or that contained in oxygen donor is 8.84 mg/l or above per liter of the  
15 composition at 1 atmospheric pressure, 20 °C.
5. The ophthalmic composition according to claim 1 or 2, wherein the content of oxygen is at least 90% of the saturated dissolved oxygen in the presence of air at 1 atmospheric pressure.
6. The ophthalmic composition according to any one of claims 1 to 5,  
20 which is selected from the group consisting of eye drop, eyewash and contact re-wetting and/or wetting solution.
7. The ophthalmic composition according to any one of claims 2 to 6, wherein the oxygen donor is an oxygen carrier comprising captured oxygen.
- 25 8. The ophthalmic composition according to claim 7, wherein the

oxygen carrier is fluorocarbon.

9. The ophthalmic composition according to claim 7, wherein the oxygen carrier is one or more substances selected from the group consisting (a) hemoglobin or a polymer thereof; (b) modified hemoglobin  
5 or a polymer thereof, (c) porphyrin complex or a polymer thereof; and (d) a lipid endoplasmic reticulum which includes hemoglobin or a polymer thereof; modified hemoglobin or a polymer thereof; or porphyrin complex or a polymer thereof;

10. The ophthalmic composition according to any one of claims 1 to 9,  
10 which further comprises at least one substance selected from the group consisting of inorganic salts, sugars, vitamins, amino acids, epithelial cell growth factors and oxygen scavengers.

11. The ophthalmic composition according to any one of claims 1 to  
15 10, which is stored in a container impermeable or less permeable to oxygen.

12. The ophthalmic composition according to any one of claims 1 to  
10, which is stored in an oxygen-permeable container that is encased in a package impermeable or less permeable to oxygen.

13. The ophthalmic composition according to claim 12, wherein the  
20 room formed between the container and the package is replaced with oxygen.

14. The ophthalmic composition according to any one of claims 11 to  
13, wherein the container impermeable or less permeable to oxygen or  
the package impermeable or less permeable to oxygen comprises at  
25 least one substance selected from the group consisting of ethylene-vinyl

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alcohol copolymer, polyethylene naphthalate and polyethylene terephthalate.

15. The ophthalmic composition according to any one of claims 11 to 14, which is packaged in a unit dosage container.

5 16. The ophthalmic composition according to any one of claims 1 to 15, which is useful for preventing or treating keratitis superficialis punctate, corneal vascularization, corneal epithelial erosion, acute corneal epithelial edemas, corneal infiltration or corneal endothelial disorders.

10 17. An oxygen carrier useful for producing the ophthalmic composition according to claim 1.

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